

LARAMID G/30-V0HF1

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphthalamide*

General Information

Product Description

Compound based on Semi-aromatic polyamide (PPA). Glass fibres. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. Very good thermal properties. Good chemical resistance. Low moisture absorption. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Heat Resistance	• PFAS Free
	• Halogen Free	• Low (to None) Phosphorus Content	
Uses	• High Temperature Applications		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.54	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.90	%	
Flow : 0.0787 in	0.30 to 0.50	%	
Water Absorption ³ (Saturation, 73°F)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.89E+6	psi	
140°F	1.74E+6	psi	
194°F	1.52E+6	psi	
248°F	1.04E+6	psi	
302°F	566000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	20300	psi	
Break, 140°F	18100	psi	
Break, 194°F	16000	psi	
Break, 248°F	13100	psi	
Break, 302°F	8700	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.3	%	
Break, 140°F	1.5	%	
Break, 194°F	2.0	%	
Break, 248°F	4.5	%	
Break, 302°F	6.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	545	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	518	°F	ISO 75-2/A
Vicat Softening Temperature	518	°F	ISO 306/B120



CLTE - Flow (86 to 212°F)	1.1E-5 in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.8E-5 in/in/°F	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+12 ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	580 V/mil	ASTM D149
Comparative Tracking Index ⁴ (Solution A)	600 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.030 in	V-0	
0.06 in	V-0	
0.12 in	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.030 in	1760 °F	
0.04 in	1760 °F	
0.08 in	1760 °F	
0.12 in	1760 °F	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.04 in	1430 °F	
0.08 in	1430 °F	
Oxygen Index	42 %	ASTM D2863

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

⁴ Without surfactant

